

The background of the slide is a photograph of several salmon swimming in a river. The fish are silvery with some darker spots, and the water is a murky, greenish-brown color. The title text is overlaid on the upper half of the image.

RESTORATION IN THE RUSSIAN RIVER

Sean White

Sonoma County Water Agency

Russian River

- **Approximately 110 miles long**
- **1,485 square mile watershed**
- **Over 200 named tributaries**
- **34 species of fish**
- **3 species of anadromous salmonids**



Sonoma County Water Agency

- **Special District formed in 1949**
- **Warm Springs and Coyote Dams**
- **Water for 600,000 in Sonoma and Marin Counties**
- **Flood control**



Projects

- **Healdsburg Dam Fish Ladder**
- **Crocker Creek Dam Removal and Riparian Restoration**
- **Mumford Dam Fish Passage and Riparian Restoration**
- **Passage and Riparian Restoration**
- **Same Funding Cycle (Summer 2000)**

Healdsburg Dam Fish Ladder

Background

- **Seasonal flashboard dam**
- **Mainstem of Russian River**
- **Constructed in 1953 as a WWII Veterans memorial**
- **Low-flow barrier**



Healdsburg Dam Fish Ladder

Project

- **Restore full access to almost 800 square miles of habitat**
- **Construct 13 step “Ice Harbor” style fishway**



Healdsburg Dam Fish Ladder

Cost and Funding

- **\$2.1M total**
- **\$450K in grant funds**



Healdsburg Dam Fish Ladder

Status

- **Completed summer of 2001**
- **Major benefit to Chinook salmon**
- **Over 1000 redds above fishway in 2002**



Crocker Creek Dam Removal and Riparian Restoration

- **Background**
- **Built in 1904 for swimming**
- **Final configuration over 30 feet high with 3 spillways**
- **Dam failed during El Nino flows of 1997**



Crocker Creek Dam Removal and Riparian Restoration

Project

- **Restore access to 5 miles of stream**
- **Stop acute release of stored sediments**
- **Stabilize and revegetate upstream bank failure**



Crocker Creek Dam Removal and Riparian Restoration

Cost and Funding

- **\$350K total**
- **\$172K grant funds**



Crocker Creek Dam Removal and Riparian Restoration

Status

- **Construction started in September 2002**
- **Construction to be completed in Summer 2003**



Mumford Dam Fish Passage and Riparian Restoration

Background

- **Flashboard Dam built in 1908 for recreation**
- **Currently used for vineyard frost protection**
- **Headcut at base 14 feet below historic grade**



Mumford Dam Fish Passage and Riparian Restoration

Project

- Use rock weirs to restore access to 50 miles of stream
- Stabilize and revegetate downstream bank failure



Mumford Dam Fish Passage and Riparian Restoration

Cost and Funding

- \$420K total
- \$283K grant funds



Mumford Dam Fish Passage and Riparian Restoration

Status

- **Scheduled for
construction
Summer 2003**



A photograph of two fish, possibly trout, in shallow, rippling water over a rocky and pebbly bottom. The fish are positioned horizontally, one above the other. The word "QUESTIONS?" is overlaid in the center in a green, serif font with a white outline.

QUESTIONS?